

PCT/DE 03/03669

A. CLASS IPC 7	F02M55/02 B21C23/08								
	to International Patent Classification (IPC) or to both national classification	ation and IPC							
Minimum de	ocumentation searched (classification system followed by classification	on symbols)							
IPC 7	F02M B21C								
Documenta	tion searched other than minimum documentation to the extent that s	such documents are included in the fields so	arched						
	data base consulted during the international search (name of data base	se and, where practical, search terms used	)						
EPO-In									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.						
Х	DE 39 36 432 A (WEBER SRL) 13 June 1990 (1990-06-13) column 2, line 28 -column 3, line figures	1,2							
X	US 4 570 602 A (ATKINS TERRANCE J ET AL) 18 February 1986 (1986-02-18) column 2, line 37 - line 39; figure 2								
X	US 4 979 295 A (LOLLI MASSIMO ET 25 December 1990 (1990-12-25) column 2, line 4 - line 26; figur	1							
Further documents are listed in the continuation of box C.  Patent family members are listed in annex.									
<ul> <li>A document defining the general state of the art which is not considered to be of particular relevance</li> <li>E earlier document but published on or after the international filing date</li> <li>L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>O document referring to an oral disclosure, use, exhibition or other means</li> <li>P document published prior to the international filing date but later than the priority date claimed</li> </ul>		"Y" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family							
_	ctual completion of the international search  April 2004	Date of malling of the international search report  19/04/2004							
	alling address of the ISA	Authorized officer							
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Torle, E	·						



Information on patent family members

onal Application No PCT/DE 03/03669

Patent docume cited in search re	ent eport	Publication date		Patent family member(s)		Publication date
DE 3936432	. A	13-06-1990	IT	1223881	В	29-09-1990
			DE	3936432	A1	13-06-1990
			FR	2638490	A1	04-05-1990
			GB	2225968	Α	20-06-1990
US 4570602	: A	18-02-1986	AU	565695	B2	24-09-1987
			AU	1730583	A	01-03-1984
			DE	3371805		02-07-1987
			EP	0102164	ĀŽ	07-03-1984
			JP	1733836	С	17-02-1993
			JP	4018142	В	26-03-1992
			JP	59070873	Α	21-04-1984
			MX	7492	E	13-04-1989
US 4979295	Α	25-12-1990	IT	1219300	В	03-05-1990
			DE	3915440	A1	23-11-1989
			FR	2631391		17-11-1989
			GB	2219632		13-12-1989